

		SEQ ID NOs: added
+		
G3472 (80)	-----MAES-----DNESGGHTGNASGSN-----	
G3473 (52)	-----MADS-----DNDSGGAHNGGKGS-----	
G3474 (82)	-----MAES-----DNESGGHTGNASGSN-----	
G3435 (48)	-----MPDS-----DNDSGGPSN-AGG-----	
G3397 (92)	-----MPDS-----DNDSGGPSNYAGG-----	
G3436 (50)	-----MPDS-----DNESGGPSN--A-----	
G3398 (76)	-----MPDS-----DNESGGPSN--AG-----	
G3475 (20)	-----MADS-----DNDSGGAHNAGKG-----	
G3478 (86)	-----MADS-----DNDSGGAHNGGKG-----	
G3476 (18)	-----MAES-----DNDSGGAQNAGNSGNL-----	
G485 (6)	-----MADS-----DNDSGGHKDGGN-----	
G482 (4)	-----MGDS-----DRDSGGGQNGNNQNGQ-----	
OSC30077 (31)	MKSRKSYGHL LSPVGPPL-----DNESGEAAAAAAGGCGSSAGYVYVG	
G3471 (24)	-----MSDAPPSP-----THESGGEQSPRGSS-----	
G3477 (84)	-----MSDAPASP-----SHESGGEQSPRGSL-----	
G3470 (26)	-----MSDAPASP-----SHESGGEQSPRGSL-----	
G481 (2)	-----MADTPSSP-----AGD-GGESG-----	
G1364 (8)	-----MAESQAKSP-----GGCGSHESGGDQSPR-----	
G2345 (10)	-----MAESQTGG-----GGGGSHESSGGDQSPR-----	
AP004366 (110)	-----MADA-----GHDESGSPPRSGGVR-----	
G3434 (78)	-----MADD-----GGSHESGSG-GGGGVR-----	
G3394 (88)	-----MADGPGSPG-----GGGGSHESSGSPRGGGGGGG-----	
G1781 (72)	-----MTEESPEEDHGSPGVAETNPSPSSKTNNNNN-----	
G1248 (70)	-----MAGNYHSFQNPPIPRYQNYNFGSSSSNHQHEHDLVV-----VVEDQ	
G486 (111)	-----	
G1821 (112)	-----MAEGSMRPP-----EFNQPNKTSNGGEE-----	
Consensus (113)	M D GG	

FIGURE 6A

+ SEQ ID NOS: added		DNA binding domain	Subunit interaction
G3472 (80)	---	EFSGCREQDRFLPIANVSRIMKKALPANAKISKEAKETVQECVSEFFISFIT-GEASD	↓
G3473 (52)	---	EMS-PREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFFISFHSPPGGLAG	
G3474 (82)	---	ELSGCREQDRFLPIANVSRIMKKALPANAKISKEAKETVQECVSEFFISFIT-GEASD	
G3435 (48)	---	ELSSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFFISFIT-GEASD	
G3397 (92)	---	ELSSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFFISFIT-GEASD	
G3436 (50)	---	EFSSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFFISFIT-GEASD	
G3398 (76)	---	EYASAREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFFISFIT-GEASD	
G3475 (20)	---	SEMSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFFISFIT-GEASD	
G3478 (86)	---	SEMSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFFISFIT-GEASD	
G3476 (18)	---	SELSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFFISFIT-GEASD	
G485 (6)	----	ASTREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFFISFIT-GEASD	
G482 (4)	---	SSLSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQECVSEFFISFVT-GEASD	
OSC30077 (31)	GGGDS	PAKEQDRFLPIANVSRIMKRSALPANAKISKESKETVQECVSEFFISFVT-GEASD	
G3471 (24)	---	SG-AREQDRYLPIANISRMKKALPPNGKIAKDAKDTMQECVSEFFISFIT-SEASE	
G3477 (84)	---	SGAAREQDRYLPIANISRMKKALPPNGKIAKDAKDTMQECVSEFFISFIT-SEASE	
G3470 (26)	---	SGAAREQDRYLPIANISRMKKALPPNGKIAKDAKDTMQECVSEFFISFIT-SEASE	
G481 (2)	---	GSVREQDRYLPIANISRMKKALPPNGKIGKDAKDTVQECVSEFFISFIT-SEASD	
G1364 (8)	---	SLHVREQDRFLPIANISRMKRGLPANGKIAKDAKEIVQECVSEFFISFVT-SEASD	
G2345 (10)	---	SLNVREQDRFLPIANISRMKRGPLPLNGKIAKDAKETMQECVSEFFISFVT-SEASD	
AP004366 (110)	-----	EQDRFLPIANISRMKKAVPANGKIAKDAKETLQECVSEFFISFVT-SEASD	
G3434 (78)	-----	EQDRFLPIANISRMKKAVPANGKIAKDAKETLQECVSEFFISFVT-SEASD	
G3394 (88)	--GGG	PLVRQDRFLPIANISRMKKAI PANGKIAKDAKETVQECVSEFFISFIT-SEASD	
G1781 (72)	-----	NNKEQDRFLPIANVGRIMKKVLPNGKISKDAKETVQECVSEFFISFVT-GEASD	
G1248 (70)	QQEES	MMVKEQDRLLPIANVGRIMKNI LPANAKVSKEAKETMQECVSEFFISFVT-GEASD	
G486 (111)	-----	MTDEDRLLPIANVGRIMKQILPSNAKISKAKQTVQECATEFFISFVT-CEASE	
G1821 (112)	-----	ECTVREQDRFMPIANVIRIMRRILPAHAKISDDSKETIQECVSEYISFIT-GEANE	
Consensus (113)		EQDRFLPIANVSRIMK ALPANAKISKDAKETVQECVSEFFISFIT GEASD	

FIGURE 6B ↑ B domain

SEQ ID NOs: added

+

G3472 (80) KCQKEKRKTINGDDLLWAMTTLGFEEYVEPLKVYLHKYRELEGEKTAMMG-----
G3473 (52) ECQKEKRKTINGDDLLWAMTTLGFEEYVEPLKVYLHKYRELEGEKTAMMG-----
G3474 (82) KCQKEKRKTINGDDLLWAMTTLGFEDYVDPLKIYLHKYREMEGEKTAMMG-----
G3435 (48) KCQKEKRKTINGDDLLWAMTTLGFEDYVEPLKHYLHKFREIEGERAAASAGASGQQQ--
G3397 (92) KCQKEKRKTINGDDLLWAMTTLGFEDYVDPLKHYLHKFREIEGERAAASTTGAGTSAA--
G3436 (50) KCQKEKRKTINGDDLLWAMTTLGFEDYVEPLKLYLHKFRELEGEKAAATSASSGPQPLH
G3398 (76) KCQKEKRKTINGDDLLWAMTTLGFEDYIDPLKLYLHKFRELEGEKAIGAAGSGGGAASS
G3475 (20) KCQKEKRKTINGDDLLWAMTTLGFEDYVEPLKGYLQRFREMEGEKTVAAR-----
G3478 (86) KCQKEKRKTINGDDLLWAMTTLGFEDYVEPLKGYLQRFREMEGEKTVAAR-----
G3476 (18) KCQKEKRKTINGDDLLWAMTTLGFEEYVEPLKIYLQRFREMEGEKTVAAR-----
G485 (6) KCQKEKRKTINGDDLLWAMTTLGFEDYVEPLKVYLQKYREVEGEKTTAGR-----
G482 (4) KCQKEKRKTINGDDLLWAMTTLGFEDYVEPLKVYLQRFREIEGERTGLGRP-----
OSC30077 (31) KCQKEKRKTINGDDLLWAMTTLGFEEYVGPLKSYLNRYREAEGEKADVLGGAGAAARH
G3471 (24) KCQKEKRKTINGDDLLWAMATLGFEDYIEPLKVYLARYREAEEDTKGSARS-----
G3477 (84) KCQKEKRKTINGDDLLWAMATLGFEDYIEPLKVYLARYREAEEDTKGSARS-----
G3470 (26) KCQKEKRKTINGDDLLWAMATLGFEDYIEPLKVYLARYREAEEDTKGSARS-----
G481 (2) KCQKEKRKTVNGDDLLWAMATLGFEDYLEPLKIYLARYRELEGDNKGSGKS-----
G1364 (8) KCQKEKRKTINGDDLLWAMATLGFEDYMEPLKVYLMRYRE--GDTKGSAKG-----
G2345 (10) KCQKEKRKTINGDDLLWAMATLGFEDYIDPLKVYLMRYREMEGDTKSGKG-----
AP004366 (110) KCQKEKRKTINGEDLLFAMGTLGFEEYVDPLKIYLHKYREMEGDSKLSKA-----
G3434 (78) KCQKEKRKTINGDDLLWAMATLGFEEYVEPLKIYLQKYKEMEGDSKLSKA-----
G3394 (88) KCQKEKRKTINGDDLLWAMATLGFEDYIEPLKVYLQKYREMEGDSKLTAKA-----
G1781 (72) KCQKEKRKTINGDDIIWAITTLGFEDYVAPLKVYLCKYRDTEGEKVNSPKQ-----
G1248 (70) KCHKEKRKTVNGDDICWAMANLGFDDYAAQLKKYLRVRLVLEGEKPN-----
G486 (111) KCHRENKTVNGDDIWWALSTLGLDNYADAVGRHLHKYREAEERTEHNKG-----
G1821 (112) RCQREQRKTTAEDVLWAMSKLGFDDYIEPLTLYLHRYRELEGERGVSCSAG-----
Consensus (113) KCQKEKRKTINGDDLLWAMTTLGFEDY EPLKVYL YRE EGE

B domain

FIGURE 6C

+

SEQ ID NOs: added

+ G3472 (80) -----RPERDEGYGH-----ATPMM-IMMGHQ-----
G3473 (52) -----RPERDEGYGH-----ATPMM-IMMGHQ-----
G3474 (82) -----RPERDEGYGHGH-----HATPMTMMMGHPQHGH-----
G3435 (48) --QQQGE LPRGAANAAG-YAGYGAPG-----SG-GMMMMMMGQPMYGGSQPQ--
G3397 (92) --STTPPQQQHTANAAGGYAGYAAPG-----AGPGMMMMMMGQPMYCGSPPP--
G3436 (50) RETTPSSSTHN--GAGGPVGGYGMYGGA-----GGSGMIMMMGQPMYGGSPPA--
G3398 (76) GSGSGSGSHHHQDASRNNGGYMGY-----GGGMIMMMGQPMYG-SPPA--
G3475 (20) --DKDAPPPTNATNSAYESP YAAA-----PGGIMMHQGHVYG-----
G3478 (86) --DKDAPPLTNATNSAYESANYAAAA-----AVPGGIMMHQGHVYG-----
G3476 (18) --DSSK---DSASASSY-----HQQGHVYG-----
G485 (6) --QGDKEGGGGGAGSGGGAPMYG-----GGMVTTMGHQFS-----
G482 (4) --QTGGEVGEHQDVAVDGGGFYGG-----GGMQYHQQHQL-----
OSC30077 (31) GEGCCGGGGGADGVVIDGHYPLAGGLSHSHGHQQDGGDVGLMMGGDAGVGNAG
G3471 (24) --GDGSATPD-QVGLAGQNSQLVHQG-----SLNYIGLQVQP-----
G3477 (84) --GDGSATPD-QVGLAGQNSQLVHQG-----SLNYIGLQVQP-----
G3470 (26) --GDGSARPD-QVGLAGQNAQVQPQX-----SG-YAFNARP-----
G481 (2) --GDGSNRDA-GGVSGEEMPSW-----
G1364 (8) --GDPNAKKDQSSQNGQFSQLAHQG-----PYGNSQ-----
G2345 (10) --GESSAKRDGQPSQVSQFSQVPQQG-----SFSQGPYNSQSLRFGNSIEH
AP004366 (110) --GDGSVKKDTIGPHSGASSSSAQG-----MVGAYTQGMGY-----
G3434 (78) --GEGSVKKDAISP HGTSSSNQLV-----QHG VYNQGMGY-----
G3394 (88) --GDGSVKKDV L GSHGSSSSAQGMG-----QQAAYNQGMGY-----
G1781 (72) --QQQRQQQQQIQQQNHHNYQFQEQDQNNNN-----MSCTSYISHHPSFPLPVDHQ--
G1248 (70) -----HHGKG-----
G486 (111) --SNDSGNEKE-----TNTRS-----
G1821 (112) --SVSMTNGLVVKRPNGTMT EYGAYG-----PVPGIHMAQYHYR-----

FIGURE 6D

+

SEQ ID NOs: added

+ G3472 (80) -----QQQHQG--HVGSGGT-----TGSASSARTR-----
G3473 (52) -----QQQHQG--HVGSGGT-----TGSASSARTR-----
G3474 (82) -----QHQQHQQG--HVGSGGT-----GSASSARTR-----
G3435 (48) --QPPPPQQQQQQHMHMAMGRRGFGQQ--GGGGSSSSGLGRQDRA-----
G3397 (92) -----PPQQQQQH--HHMAMGRRGFGHHPPGGGGSSSSSGHGRQNRGA-----
G3436 (50) --ASSG-----SYPHH--QMAMGKGAYGYGGSSSSPS--GLGR-----
G3398 (76) --SSAGYAQPPPHHHH--QMVMGKG-AYGHGGGGGGPSSGYGRQDRL-----
G3475 (20) -----SAGFH--QVAGGAIK-----GGPVYPGPGSNAGRPR-----
G3478 (86) -----SAGFH--QVAGGAIK-----GPPAYPGPGSNAGRPR-----
G3476 (18) -----SPAYH--HQVP-----GPTYAPG--RPR-----
G485 (6) -----HHFS-----
G482 (4) -----HQQNHMYGATGGGSDS-----GGGAASGRTR-----
OSC30077 (31) AGSTTAFYAPAATAASGNKAYCGDGSRVMEFEGIGEEEEGGGGGGERGFAGHLHGV
G3471 (24) -----QHLVMPMQSHE-----
G3477 (84) -----QHLVMPMQSHE-----
G3470 (26) -----
G481 (2) -----
G1364 (8) -----VTFPLFSSHSN-----THH--SLLIC-----
G2345 (10) LEVLMSSSTRLTITIFRDSTMPVVSSENLSIDPLSIDMDCEAIYHHFIGLLILSCK-----
AP004366 (110) -----MQPQSNFHILVVLQSFAPFMYQVAQIYCKYPSIE-----
G3434 (78) -----MQPQ-----YHNGET-----
G3394 (88) -----MQPQ-----YHNGDVSN-----
G1781 (72) -----PPPNIAFSPKSLQKQ-----FPQHDNDNIDSIHW-----
G1248 (70) -----GPKSSP-----DN-----
G486 (111) -----DVQNQSTK-----FIRVEKGSSSSAR-----
G1821 (112) -----HQNGFVFSGNEPNSKMSGSSSGASGARVEVFTQQHKY-----

FIGURE 6E

+

		SEQ ID NOs: added	
+	G3472 (80)		---
	G3473 (52)		---
	G3474 (82)		---
	G3435 (48)		---
	G3397 (92)		---
	G3436 (50)		---
	G3398 (76)		---
	G3475 (20)		---
	G3478 (86)		---
	G3476 (18)		---
	G485 (6)		---
	G482 (4)		---
	OSC30077 (31)	QWFLKRNTN	---
	G3471 (24)		---
	G3477 (84)		---
	G3470 (26)		---
	G481 (2)		---
	G1364 (8)		---
	G2345 (10)		---
	AP004366 (110)		---
	G3434 (78)		---
	G3394 (88)		---
	G1781 (72)		---
	G1248 (70)		---
	G486 (111)		---
	G1821 (112)		---

FIGURE 6F